

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,730	02/18/2004	Tumay O. Tumer	NOVA-012-C 2086	
28892 7	590 01/13/2006		EXAMINER	
SNIDER & ASSOCIATES			LE, DINH THANH	
P. O. BOX 27613 WASHINGTON, DC 20038-7613			ART UNIT	PAPER NUMBER
	•		2816	:
			DATE MAILED: 01/13/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			14
	Application No.	Applicant(s)	
	10/779,730	TUMER ET AL.	
Office Action Summary	Examiner	Art Unit	
	DINH T. LE	2816	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
	VIO OET TO EVOIDE A MONTH	O) OD TUUDTY (00) DAYO	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 08 No	ovember 2005.		
	action is non-final.		
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) 22,23,28-34,39,44-46,48,49,53 and 58	8-92 is/are pending in the applica	ation.	
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6) Claim(s) 22-23, 28-34, 39, 44-46, 48-49, 53 and	<u>d 58-92</u> is/are rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examiner	r.		
10) The drawing(s) filed on is/are: a) acce		Examiner.	
Applicant may not request that any objection to the o			
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d)	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents			
2. Certified copies of the priority documents	• •		
3. Copies of the certified copies of the priori	•	ed in this National Stage	
application from the International Bureau * See the attached detailed Office action for a list of	• • •	.d	
See the attached detailed Office action for a list of	or the certified copies flot receive	u.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)	atent Application (PTO-152)	
Ascellace COACTES			

Terminal Disclaimed filed on 3/28/05.

The rejection under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 670812 is withdrawn in view of the

The rejection over Tumer (US 5,943,388) are withdrawn in view of the amendments to the claims.

Claim Rejections

Claim Rejections - 35 USC _ 112

Claims 22-23, 28-34, 39, 44-46, 48-49, 53 and 58-92 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction or clarification is required.

In claim 22, the recitation "amplifier" on line 6 is confusing because it is unclear if this is additional "amplifier" or further recitation of the previously claimed "amplifier" on line 4. It is unclear how the recitation "output circuit system for outputting said processed signals responsive to said input signals" and "a polarity switching circuit is connected to said amplifiers" is read on the preferred embodiment. Insofar as understood, no such system and circuits can be determined on the drawings. The same is true for claims 28-29, 39, 46, 53 and 59.

In claim 28, it is unclear how the recitation "a peak and hold circuit coupled to output of at least one of said amplifiers" is read on the preferred embodiment. Insofar as understood, no such circuit is seen on the drawings. The same is true for reciting "comparators connected to said amplifiers" in claim 29, "a circuit connected to an output of said peak hold or sample and hold

circuit is multiplexed to said output circuit system" in claim 33, "a time difference measurement circuit" in claims 46, "pole-zero cancellation circuit" in claims 53 and 60-92.

In claim 48, it is not understood how the plurality of comparators can be a "single comparator" since the single comparator cannot be formed from the plurality of comparators.

In claim 58, the recitation "circuitry for measuring time difference" on line 2 is confusing because it is unclear if this is additional "circuitry" or further recitation of the previously claimed "measurement circuit" on line 15 of claim 46.

In claim 59, the recitation "the functions" lacks clear antecedent basis. It is unclear what the "functions" are. The description of the present invention was incomplete because the control system is not connected to anything. Thus, the claimed control circuit may not perform the recited function.

The remaining claims are dependent from the above rejected claims and therefore considered indefinite.

Allowable Subject Matter

Claims 22-23, 28-34, 39, 44-46, 48-49, 53 and 58-92 are would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The claims are allowed because the prior art does not show the trigger circuit and the output circuit as combined in claims 22, 28, 29, 39, 46, 53 and 59.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY CALLAHAN can be reached at (571) 272-1740.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

11 January 2006

PRIMARY EXAMINER